

Template and Guidelines for Writing a Scientific Paper

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Abstract — *The abstract should concisely summarize the contents of a paper. Since potential readers should be able to make their decision on the personal relevance based on the abstract, the abstract should clearly tell the reader what information he can expect to find in the paper. The most essential issue is the problem statement and the actual contribution of described work. The authors should always keep in mind, that the abstract is the most frequently read part of a paper. It should contain at least 70 and at most 120 words.*

1 INTRODUCTION

This document serves two purposes. First it is a template and example for a scientific paper. Second, the text in the sections contains useful information on structuring and writing your first paper. We recommend to read the following sections carefully in order to avoid common mistakes.

The introduction should consist of three parts (as paragraphs, not to be structured into multiple headings):

The first part deals with the *background* of the work and describes the field of research. It should also elaborate on the *general problem statement* and the *relevance*?

The second part should describe the focus of the paper, typically the paragraph starts with a phrase like “*The objective of this paper is ...*”.

The last part should describe the structure of the paper, for example: The paper is structured as follows: Section 2 explains the overall structure for different types of scientific papers. Section 3 gives some hints on writing and covers also acronyms, figures and tables. Section 4 gives a recommendation on L^AT_EX and explains how to get the necessary tools. Section 5 presents a checklist of common mistakes to avoid. Section 6 concludes the paper.

2 STRUCTURE OF YOUR PAPER

2.1 RESEARCH PAPERS

The structuring of your sections heavily depends on the type of your paper. For example if you have done some research encompassing an experimental setup and measurements, your paper could be possibly structured as follows:

- Abstract; Kurzfassung, Abstract
- Introduction; Einleitung
- Related Work; Verwandte Arbeiten
- Basic concepts, Concepts and Terms; Grundbegriffe, Grundkonzepte und Definitionen
- Experimental setup, Applied Method; Versuchsaufbau, Vorgangsweise
- Results; (Experimentielle) Ergebnisse
- Discussion, Proof; Diskussion, Beweis
- Conclusion (and Outlook), Summary; Schlussfolgerungen, Fazit; Zusammenfassung (und Ausblick)
- References; Literaturverzeichnis

The colons separate possible variants in naming the sections. The variants after the semicolon give the German counterparts. If some text is in brackets, this text could be optionally added to the given variant (but used without brackets).

The section on related work might also appear right before the concluding section.

The section on basic concepts should introduce the basic terms and concepts that are needed to understand the following sections of the paper. Sometimes, it is not necessary to have a separate section on basic concepts, if the basic concepts are well-known or can be covered in the introduction.

The experimental setup typically describes the used hardware, software, and the implementation. If your implementation has a fancy name, you could also name that section that way (for example *KHUFU System Description*).

Most papers you will read for your first paper will likely be such *research papers*.

2.2 SURVEY PAPERS

If you do a literature research comparing some approaches, your paper could be possibly structured as follows:

- Abstract; Kurzfassung, Abstract
- Introduction; Einleitung

Scientific Paper Guidelines

L Darling-Hammond



Scientific Paper Guidelines:

Research and Development Guidelines for the Food Industries WA Gould,1991-07-01 This title is a How to do it and why to do it educational and reference guide It is a compilation of all the R D principles and objectives under the one cover written in a fashion that is easily understood by the professional as well as the student of research and development and should be available to everyone interested involved in these subjects The book leaves no stone unturned and has practical charts and tables *Writing a scientific paper* , **Writing and Presenting Scientific Papers** Birgitta Malmfors,Phil Garnsworthy,Michael Grossman,2003-01-01 This dynamic manual provides guidelines for written and oral scientific presentations including how to effectively prepare and deliver papers and presentations how to find reliable research and how to write research proposals *How to Write and Publish a Scientific Paper* Barbara Gastel,Robert A. Day,2022-06-30 Thoroughly updated throughout this classic practical text on how to write and publish a scientific paper takes its own advice to be as clear and simple as possible The purpose of scientific writing according to Barbara Gastel and Robert A Day is to communicate new scientific findings Science is simply too important to be communicated in anything other than words of certain meaning This clear beautifully written and often funny text is a must have for anyone who needs to communicate scientific information whether they re writing for a professor other scientists or the general public The thoughtfully revised 9th edition retains the most important material including preparing text and graphics publishing papers and other types of writing and plenty of information on writing style while adding up to date advice on copyright presenting online identifying authors creating visual abstracts and writing in English as a non native language A set of valuable appendixes provide ready reference including words and expressions to avoid SI prefixes a list of helpful websites and a glossary Students and working scientists will want to keep *How to Write and Publish a Scientific Paper* at their desks and refer to it at every stage of writing and publication *Scientific Thesis Writing and Paper Presentation* N. Gurumani,2019-06-11 Scientific writing and communication needs to take care of a wide range of audience from students and researchers to experts The main objective of this book is to offer the basics of scientific writing and oral presentation to students and researchers working for their M Phil and Ph D degrees in science subjects This book provides information on how to write research reports theses papers for publication etc and to prepare for poster and oral presentation at conferences and scientific meetings The book also offers guidelines for preparing proposals for research projects Scientific Papers and Presentations Martha Davis,Kaaron Joann Davis,Marion Dunagan,2012-07-30 Electronic publishing and electronic means of text and data presentation have changed enormously since the first edition of this book was published in 1997 The third edition of *Scientific Papers and Presentations* applies traditional principles to today s modern techniques and the changing needs of up and coming academia Topics include designing visual aids writing first drafts reviewing and revising communicating clearly and concisely adhering to stylistic principles presenting data in tables and figures dealing with ethical and legal issues and relating science to the lay

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Guide to Publishing a Scientific Paper Ann M. Körner, 2008-01-08 Guide to Publishing a Scientific Paper provides researchers in every field of the biological physical and medical sciences with all the information necessary to prepare submit for publication and revise a scientific paper The book includes details of every step in the process that is required for the publication of a scientific paper for example use of correct style and language choice of journal use of the correct format and adherence to journal guidelines submission of the manuscript in the appropriate format and with the appropriate cover letter and other materials the format for responses to reviewers comments and resubmission of a revised manuscript The advice provided conforms to the most up to date specifications and even the seasoned writer will learn how procedures have changed in recent years in particular with regard to the electronic submission of manuscripts Every scientist who is preparing to write a paper should read this book before embarking on the preparation of a manuscript This useful book also includes samples of letters to the Editor and responses to the Editor's comments and referees criticism In addition as an Appendix the book includes succinct advice on how to prepare an application for funding The author has edited more than 7 500 manuscripts over the past twenty years and is consequently very familiar with all of the most common mistakes Her book provides invaluable and straightforward advice on how to avoid these mistakes Dr Körner is a professional editor and writer She has an undergraduate degree from the University of Cambridge and a doctorate in Molecular Biophysics and Biochemistry from Yale University

Research Methodology for Scientific Research, 2/E K. Prathapan, 2022-12-01 K Prathapan is currently working as an Assistant Professor in the Post Graduate Department of Physics and Research Center Govt Brennen College Thalassery Kerala The author has published books like Analytical Problems in Classical Mechanics With Complete Solutions Quantum Mechanics An Interactive Textbook Classical and Quantum Mechanics Properties of Matter etc The author has 10 research papers to his credit published in various international journals

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Understanding and Evaluating Research Sue L. T. McGregor, 2017-10-25 Understanding and Evaluating Research A Critical Guide shows students how to be critical consumers of research and to appreciate the power of methodology as it shapes the research question the use of theory in the study the methods used and how the outcomes are reported The book starts with what it means to be a critical and uncritical reader of research followed by a detailed chapter on methodology and then proceeds to a discussion of each component of a research article as it is informed by the methodology The book encourages readers to select an article from their discipline learning along the way how to assess each component of the article and come to a judgment of its rigor or quality as a scholarly report

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